Appendix A

nop	IGNORE OPCODE
aconst_null	OP_PUSHB
iconst_ml	OP_PUSHB
iconst_0	OP_PUSHB
iconst_1	OP_PUSHB
iconst_2	OP_PUSHB
iconst_3	OP_PUSHB
iconst_4	OP_PUSHB
iconst_5	OP_PUSHB
lconst_0	OP_PUSHL
lconst_1	OP_PUSHL
fconst_0	OP_PUSH
fconst_1	OP_PUSH
fconst_2	OP_PUSH
dconst_0	OP_PUSHL
dconst_1	OP_PUSHL
bipush	OP_PUSHB
sipush	OP_PUSH
ldc	OP_PUSH
ldc_w	OP_PUSH
ldc2_w	OP_PUSHL
iload	OP_LOAD
lload	OP_LOADL
fload	OP_LOAD
d1oad	OP_LOADL
aload	OP_LOAD
iload_0	OP_LOAD
iload_1	OP_LOAD
iload_2	OP_LOAD
iload_3	OP_LOAD
Iload_0	OP_LOADL
11oad_1	OP_LOADL
11oad_2	OP_LOADL

lload 3	OP LOADL
fload 0	OP_LOADL
fload 1	OP LOAD
fload 2	OP LOAD
fload 3	OP LOAD
dload_0	OP LOADL
d1oad 1	OP LOADL
dload 2	OP LOADL
dload 3	OP LOADL
aload 0	OP LOAD
aload I	OP LOAD
aload 2	OP LOAD
aload 3	OP LOAD
iaload	OP ALOAD
laload	OP ALOAD
faload	OP ALOAD
daload	OP ALOAD
aaload	OP ALOAD
baload	OP ALOAD
caload	OP ALOAD
saload	OP ALOAD
istore	OP STOR
Istore	OP STORL
fstore	OP_STOR
dstore	OP STORL
astore	OP_STOR
istore_0	OP_STOR
istore_1	OP_STOR
istore_2	OP_STOR
istore_3	OP_STOR
1store_0	OP_STORL
1store_1	OP_STORL
Istore_2	OP_STORL
1store_3	OP_STORL
fstore_0	OP_STOR
fstore_1	OP_STOR

fstore_2	OP_STOR
fstore_3	OP_STOR
dstore_0	OP_STORL
dstore_1	OP_STORL
dstore_2	OP_STORL
dstore_3	OP_STORL
astore_0	OP_STOR
astore_1	OP_STOR
astore_2	OP_STOR
astore_3	OP_STOR
iastore	OP_ASTORE
lastore	OP_ASTOREL
fastore	OP_ASTORE
dastore	OP_ASTOREL
aastore	OP_ASTORE
bastore	OP_ASTORE
castore	OP_ASTORE
sastore	OP_ASTORE
рор	OP_POP
pop2	OP_POP
dup	OP_DUP
dup_x1	OP_DUP
dup_x2	OP_DUP
dup2	OP_DUPL
dup2_x1	OP_DUPL
dup2_x2	OP_DUPL
swap	OP_SWAP
iadd	OP_IADD
ladd	OP_LADD
fadd	OP_FADD
dadd	OP_DADD
isub	OP_ISUB
Isub	OP_LSUB
fsub	OP_FSUB
dsub	OP_DSUB
imul	OP_IMUL

Imul	OP LMUL
fmul	OP_ENIOL OP_FMUL
dmul	OP_DMUL
idiv	OP_IDIV
ldiv	OP_LDIV
fdiv	OP_FDIV
ddiv	OP_DDIV
irem	OP_IREM
Irem	OP_LREM
frem	OP_FREM
drem	OP_DREM
ineg	OP_INEG
Ineg	OP_LNEG
fneg	OP_FNEG
dneg	OP_DNEG
ishl	OP_ISHL
Ishl	OP_LSHL
ishr	OP_ISHR
Ishr	OP_LSHR
iushr	OP_IUSHR
lushr	OP_LUSHR
iand	OP_IAND
land	OP_LAND
ior	OP_IOR
lor	OP_LOR
ixor	OP IXOR
Ixor	OP_LXOR
iinc	OP_IINC
i2I	OP I2L
i2f	IGNORE OPCODE
i2d	OP_I2D
12i	OP L2I
12f	OP L2F
12d	OP L2D
f2i	IGNORE OPCODE
f2l	OP F2L
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f2d	OP F2D
d2i	OP D2I
d2l	OP D2L
d2f	OP D2F
i2b	IGNORE OPCODE
i2c	IGNORE OPCODE
i2s	IGNORE_OPCODE
lcmp	OP_LSUB, OP_JMPEQ
fcmpl	OP_FSUB, OP_JMPLE
fcmpg	OP_FSUB, OP_JMPGE
dcmpl	OP_DCMP, OP_JMPLE
dcmpg	OP_DCMP, OP_JMPGE
ifeq	OP_JMPEQ
ifne	OP_JMPNE
iflt	OP_JMPLT
ifge	OP_JMPGE
ifgt	OP_JMPGT
ifle	OP_JMPLE
if icmpeq	OP_ISUB, OP_JMPEQ
if icmpne	OP_ISUB, OP_JMPNE
if icmplt	OP_ISUB, OP_JMPLT
if icmpge	OP_ISUB, OP_JMPGE
if icmpgt	OP_ISUB, OP_JMPGT
if icmple	OP_ISUB, OP_JMPLE
if acmpeq	OP_ISUB, OP_JMPEQ
if acmpne	OP_ISUB, OP_JMPNE
goto	OP_JMP
jsr	OP_JSR
ret	OP_RET
tableswitch	OP_SWITCH
lookupswitch	OP_SWITCH
ireturn	OP_RETURN
Ireturn	OP_LRETURN
freturn	OP_RETURN
dreturn	OP_LRETURN
areturn	OP_RETURN

return	OP RETURNV	
getstatic	OP RESOLVE	
_		
putstatic	OP_RESOLVEP	
getfield	OP_RESOLVE	
putfield	OP_RESOLVEP	
invokevirtual	OP_RESOLVE	
invokespecial	OP_RESOLVE	
invokestatic	OP_RESOLVE	
invokeinterface	OP_RESOLVE	
xxxunusedxxx	IGNORE_OPCODE	
new	OP_NEW	
newarray	OP_NEW	
anewarray	OP_NEW	
arraylength	OP_ARRAYLENGTH	
athrow	OP_THROW	
checkcast	IGNORE_OPCODE	
instanceof	OP_INSTANCEOF	
monitorenter	OP_MUTEXINC	
monitorexit	OP_MUTEXDEC	
wide	OP_WIDE	
multianewarray	OP_NEW	
ifnull	OP_JMPEQ	
ifnonnull	OP_JMPNE	
goto_w	OP_JMP	
jsr_w	OP_JSR	

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